*Biological Wastes* **20** (1987) 319–321

# CONTENTS OF VOLUME 20

*Number 1*

Cellulase and Ligninase Production by Basidiomycete Culture in Solid-State Fermentation . . . . . 1
POONAM NIGAM, ASHOK PANDEY and K. A. PRABHU (India)

Changes in Solids and Carbon Content of Dairy-Cattle Slurry in Farm Tanks . 11
N. K. PATNI and P. Y. JUI (Canada)

Preparation and Some Properties of a Partially Purified Rennin-Like Enzyme from *Penicillium expansum* . . . . . 35
AHMED F. ABDEL-FATTAH and ALI S. AMR (Egypt)

Stirred-Tank, Mesophilic, Anaerobic Digestion of Fattening-Cattle Wastes and of Whole and Separated Dairy-Cattle Wastes . . . . . 43
R. SUMMERS, P. N. HOBSON, C. R. HARRIES and A. J. RICHARDSON (Great Britain)

**Short Communications**

Studies on the Standardization of Conditions for the Production of Protein Isolate from Detoxified Mustard Seed Meal . . . . . 63
W. H. SHAH, F. H. SHAH and A. ALI (Pakistan)

Sweet Orange (*Citrus senensis*) Residue as a Substrate for Single Cell Protein Production . . . . . 71
T. U. NWABUEZE and G.B. OGUNTIMEIN (Nigeria)

Announcement . . . . . 77

*Number 2*

Effect of $SO_2$, NaOH and $Na_2CO_3$ Pretreatments on the Degradability and Cellulase Digestibility of Grape Marc . . . . . 79
C. VACCARINO, R. B. LO CURTO, M. M. TRIPODO, E. BELLOCCO, G. LAGANÁ and R. PATANÉ (Italy)

Aerobic Bacterial Populations and Environmental Factors Involved in the Composting of Agricultural and Forest Wastes of the Canary Islands . . 89
M. A. FALĆON, E. COROMINAS, M. L. PÉREZ and F. PERESTELO (Spain)



*Biological Wastes* (**20**) (1987)—© Elsevier Applied Science Publishers Ltd, England, 1987.
Printed in Great Britain

Palm Oil Refinery Effluent Treatment by Sequencing Batch Reactors . . . 101
K. K. CHIN, W. J. NG (Singapore) and A. N. MA (Malaysia)

Influence of Additives on Fermentation of Quail Dropping Wastelage Inoculated with Lactic Acid-producing Bacteria . . . . . 111
D. N. KAMRA, RAMESHWAR SINGH and R. S. DASS (India)

Anaerobic Digestion of Poultry Manure at High Ammonium Nitrogen Concentrations . . . . . 117
Z. PECHAN, O. KNAPPOVÁ, B. PETROVIČOVA and O. ADAMEC (Czechoslovakia)

Recycling of Nutrients in Trash with N for Higher Cane Yield . . . . . 133
D. V. YADAV, TODI SINGH and A. K. SRIVASTAVA (India)

Purification and Properties of Xylan-Degrading Enzyme from *Aspergillus terreus* 603 . . . . . 143
AHMED F. ABDEL-FATTAH, MOHAMED A. ABDEL-NABY and ABDEL-MOHSEN S. ISMAIL (Egypt)

**Short Communication**

The Influence of Plant Fractions on the Digestibility of Rice Straw . . . . 153
KSHANIKA SANNASGALA and M. C. N. JAYASURIYA (Sri Lanka)

*Number 3*

Random-Packed Anaerobic Filter in Piggery Wastewater Treatment . . . 157
W. J. NG and K. K. CHIN (Singapore)

Optimization of In-Vessel Co-Composting Through Heat Recovery . . . . 167
MAURICE VIEL, DANIEL SAYAG, ANNIE PEYRE and LOUIS ANDRÉ (France)

Chemical and Nutritive Characteristics of Fish Silage Produced by Biological Fermentation . . . . . 187
T. E. HASSAN and J. L. HEATH (USA)

A Note on the Pyrolysis Behaviour of Sugar Cane Fibrous Products . . . 203
KASSIAP DEEPCHAND (Mauritius)

A Note on Stimulation of Biogas Production from Cattle Dung by Addition of Charcoal . . . . . 209
SUSHIL KUMAR, M. C. JAIN and P. K. CHHONKAR (India)

Growth of Mushrooms on Wheat Straw and Coffee Pulp: Strain Selection . 217
J. F. CALZADA, R. DE LEON, M. C. DE ARRIOLA and C. ROLZ (Guatemala)

Autolysis-Resistant Sediment in Fish Silage . . . . . 227
M. R. RAGHUNATH and A. R. McCURDY (Canada)

*Number 4*

The Use of an Artificial Rumen to Assess Low Quality Fibrous Feeds . . 241
M. C. N. JAYASURIYA, R. HAMILTON and B. ROGOVIC (Austria)

Amino Acid Composition of the Mushroom, *Pleurotus sajor-caju*, Cultivated on Different Agroresidues . . . . . 251
RAGINI BISARIA, MIRA MADAN, V. S. BISARIA and S. N. MUKHOPADHYAY (India)

Potentialities of a Methanogenic Microbial Ecosystem Adapted to Wine Distillery Wastewaters to Degrade Volatile Fatty Acids . . . . . 261
C. SEGRETAIN and R. MOLETTA (France)

Pilot Plant Production of SCP from Sugarcane Bagasse . . . . . 273
SH. I. EL-SHAWARBY, E. A. EL-ZANATY, A. H. EL-REFAI, F. A. HAMISSA and H. SHAKER (Egypt)

Extraction of Pectin from Egyptian Orange Peel. Factors Affecting the Extraction 281
SOHAIR A. EL-NAWAWI and FADIA R. SHEHATA (Egypt)

Dry Digestion of Crop Wastes: Studies on Dry Anaerobic Digestion with Agricultural Wastes . . . . . 291
GUO-CHAO SUN, YI-ZHE WU, SHI-JIN SHA and KE-XIN LIU (China)

Research and Application of Technology for Dry–Wet Biogas Fermentation . 303
KE-XIN LIU, GUO-CHAO SUN, XIAN-QIANG WU and YI-ZHE WU

**Short Communication**

Particle Boards from Jute Stick . . . . . 309
R. N. DAS, A. DAY and S. N. PANDEY (India)

Book Review . . . . . 315

Shorter Notice . . . . . 317